

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"6905854".pn:	USPAT	OR	OFF	2005/09/18 16:18
L2	1	"6699699".pn.	USPAT	OR	OFF	2005/09/18 17:00
L3	3	streptomyces near10 (penicillin near2 expandase)	USPAT	OR	OFF	2005/09/18 17:03
L4	14	streptomyces near10 (deacetoxycephalosporin near2 (synthase or synthetase))	USPAT	OR	OFF	2005/09/18 17:02
L5	15	L3 or L4	USPAT	OR	OFF	2005/09/18 17:02
L6	12	I5 and (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:03
L7	8173	(penicillin: near2 expandase) or (deacetoxycephalosporin: near2 synthase or synthetase)	USPAT	OR	OFF	2005/09/18 17:04
L8	245	I7 near8 (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:05
L9	15	I3 or I4	USPAT	OR	OFF	2005/09/18 17:05
L10	4	I9 and I8	USPAT	OR	OFF	2005/09/18 17:05

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623SQS

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JUL 20 Powerful new interactive analysis and visualization
software

NEWS 4 AUG 11 STN AnaVist, now available
Derwent World Patents Index(R) web-based training
during

August
NEWS 5 AUG 11 STN AnaVist workshops to be held in North America
NEWS 6 AUG 30 CA/CAplus -Increased access to 19th century
research documents

NEWS 7 AUG 30 CASREACT - Enhanced with displayable reaction conditions

NEWS 8 SEP 09 ACD predicted properties enhanced in
REGISTRY/ZREGISTRY

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0C(ENG) AND V6.0JC(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN MANAGE NEWS INFORMATION

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 17:08:55 ON 18 SEP 2005

=> File Medline EMBASE Biosis Caplus
COST IN U.S. DOLLARS

SINCE FILE ENTRY 0.21	TOTAL SESSION 0.21
-----------------------------	--------------------------

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 17:09:04 ON 18 SEP 2005

FILE 'EMBASE' ENTERED AT 17:09:04 ON 18 SEP 2005
COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'BIOSIS' ENTERED AT 17:09:04 ON 18 SEP 2005
Copyright (c) 2005 The Thomson Corporation

FILE 'CAPLUS' ENTERED AT 17:09:04 ON 18 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> s streptomyces near10 (deacetoxycephalosporin near2 (synthase or synthetase))

MISSING OPERATOR 'NEAR10 (DEACETOXYC'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> *s* streptomyces (8A) (deacetoxycephalosporin (2A) (synthase or synthetase))

L1 114 STREPTOMYCES (8A) (DEACETOXYCEPHALOSPORIN (2A)
(SYNTHASE OR

(SYNTHASE OR SYNTHETASE))

=> *s* *streptomyces* (8A) (penicillin (2A) expandase)

9 STREPTOMYCES (8A) (PENICILLIN (2A) EXPANDASE)

=> s 11 or 12 (10A) (variant or mutant or mutated or mutation or mutating)

L3 114 L1 OR L2 (10A) (VARIANT OR MUTANT OR MUTATED OR
MUTATION OR

MUTATING)

=> duplicate

ENTER REMOVE, IDENTIFY ONLY OR (?) ,remove

ENTER REMOVE, IDENTIFY, OR
ENTER L# LIST OR (END): 13

DUPLICATE PREFERENCE IS (MEDLINE, EMBASE, BIOSIS, CINAHL).

KEEP DUPLICATES FROM MORE THAN ONE FILED. X (N)

REMOVED DUPLICATES FROM MORE 1
PROCESSING COMPLETED FOR 1.3

L4 52 DUPLICATE REMOVE L3 (62 DUPLICATES REMOVED)

```
=> s 14 and ((variant or mutant or mutated or mutation or mutating)
(4A) (73 or 79 or 275 or 277 or 281 or 300))
L5          0 L4 AND ((VARIANT OR MUTANT OR MUTATED OR MUTATION OR
MUTATING)
                           (4A) (73 OR 79 OR 275 OR 277 OR 281 OR 300))
```



National
Library
of Medicine

My NCBI

[Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books
Search for

Limits Preview/Index History Clipboard Details

Display Show Sort by Send to

All: 7 Review: 0

Items 1 - 7 of 7

One page

1: [Lloyd MD, Lipscomb SJ, Hewitson KS, Hengsens CM, Baldwin JE, Schofield CJ.](#)

Related Articles, Links

Controlling the substrate selectivity of deacetoxycephalosporin/deacetylcephalosporin C synthase. *J Biol Chem.* 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20. PMID: 14734549 [PubMed - indexed for MEDLINE]

2: [Chin HS, Goo KS, Sim TS.](#)

Related Articles, Links

A complete library of amino acid alterations at N304 in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase elucidates the basis for enhanced penicillin analogue conversion. *Appl Environ Microbiol.* 2004 Jan;70(1):607-9. PMID: 14711695 [PubMed - indexed for MEDLINE]

3: [Chin HS, Sim TS.](#)

Related Articles, Links

C-terminus modification of *Streptomyces clavuligerus* deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity. *Biochem Biophys Res Commun.* 2002 Jul 5;295(1):55-61. PMID: 12083766 [PubMed - indexed for MEDLINE]

4: [Chin HS, Sim J, Sim TS.](#)

Related Articles, Links

Mutation of N304 to leucine in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase creates an enzyme with increased penicillin analogue conversion. *Biochem Biophys Res Commun.* 2001 Sep 21;287(2):507-13. PMID: 11554757 [PubMed - indexed for MEDLINE]

5: [Lee HJ, Lloyd MD, Harlos K, Clifton IJ, Baldwin JE, Schofield CJ.](#)

Related Articles, Links

Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS). *J Mol Biol.* 2001 May 18;308(5):937-48.

About Entrez

Text Version

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation
Matcher
Batch Citation
Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI
(Cubby)

Related
Resources
Order Documents
NLM Mobile
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

PMID: 11352583 [PubMed - indexed for MEDLINE]

6: [Sim J, Sim TS.](#)

[Related Articles](#), [Links](#)

 Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase for catalysis.
Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.
PMID: 10830499 [PubMed - indexed for MEDLINE]

7: [Lee HJ, Lloyd MD, Harlos K, Schofield CJ.](#) [Related Articles](#), [Links](#)

 The effect of cysteine mutations on recombinant deacetoxycephalosporin C synthase from *S. clavuligerus*.
Biochem Biophys Res Commun. 2000 Jan 7;267(1):445-8.
PMID: 10623639 [PubMed - indexed for MEDLINE]

Display [Summary](#)  Show 20  Sort by  Send to 

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Sep 9 2005 04:38:00



National
Library
of Medicine

My NCI

[Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books
Search PubMed for **deacetoxycephalosporin synthase structure** Go Clear Save Search

Limits Preview/Index History Clipboard Details

Did you mean: *deacetoxycephalosporin C synthase structure* (12 items)

Display **Summary** Show 20 Sort by Send to

All: 12 Review: 0

Items 1 - 12 of 12

One page

1: [Oster LM, van Scheltinga AC, Valegard K, Hose AM, Dubus A, Hajdu J, Andersson I.](#) Related Articles, Links
Conformational flexibility of the C terminus with implications for substrate binding and catalysis revealed in a new crystal form of deacetoxycephalosporin C synthase.
J Mol Biol. 2004 Oct 8;343(1):157-71.
 PMID: 15381427 [PubMed - indexed for MEDLINE]

2: [Lloyd MD, Lipscomb SJ, Hewitson KS, Hengsens CM, Baldwin JE, Schofield CJ.](#) Related Articles, Links
Controlling the substrate selectivity of deacetoxycephalosporin/deacetylcephalosporin C synthase.
J Biol Chem. 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20.
 PMID: 14734549 [PubMed - indexed for MEDLINE]

3: [Lee HJ, Dai YF, Shiau CY, Schofield CJ, Lloyd MD.](#) Related Articles, Links
The kinetic properties of various R258 mutants of deacetoxycephalosporin C synthase.
Eur J Biochem. 2003 Mar;270(6):1301-7.
 PMID: 12631288 [PubMed - indexed for MEDLINE]

4: [Chin HS, Sim TS.](#) Related Articles, Links
*C-terminus modification of *Streptomyces clavuligerus* deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity.*
Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61.
 PMID: 12083766 [PubMed - indexed for MEDLINE]

5: [Lipscomb SJ, Lee HJ, Mukherji M, Baldwin JE, Schofield CJ, Lloyd MD.](#) Related Articles, Links

 The role of arginine residues in substrate binding and catalysis by deacetoxycephalosporin C synthase.
Eur J Biochem. 2002 Jun;269(11):2735-9.
PMID: 12047382 [PubMed - indexed for MEDLINE]

6: [Terwisscha van Scheltinga AC](#), [Valegard K](#), [Ramaswamy S](#), [Hajdu J](#), [Andersson I](#), [Related Articles](#), [Links](#)

 Multiple isomorphous replacement on merohedral twins: structure determination of deacetoxycephalosporin C synthase.
Acta Crystallogr D Biol Crystallogr. 2001 Dec;57(Pt 12):1776-85. Epub 2001 Nov 21.
PMID: 11717489 [PubMed - indexed for MEDLINE]

7: [Lee HJ](#), [Lloyd MD](#), [Harlos K](#), [Clifton IJ](#), [Baldwin JE](#), [Schofield CJ](#), [Related Articles](#), [Links](#)

 Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS).
J Mol Biol. 2001 May 18;308(5):937-48.
PMID: 11352583 [PubMed - indexed for MEDLINE]

8: [Lee HJ](#), [Lloyd MD](#), [Clifton IJ](#), [Harlos K](#), [Dubus A](#), [Baldwin JE](#), [Frere JM](#), [Schofield CJ](#), [Related Articles](#), [Links](#)

 Alteration of the co-substrate selectivity of deacetoxycephalosporin C synthase. The role of arginine 258.
J Biol Chem. 2001 May 25;276(21):18290-5. Epub 2001 Feb 21.
PMID: 11279000 [PubMed - indexed for MEDLINE]

9: [Sim J](#), [Sim TS](#), [Related Articles](#), [Links](#)

 Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in *Streptomyces clavuligerus* deacetoxycephalosporin C synthase for catalysis.
Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.
PMID: 10830499 [PubMed - indexed for MEDLINE]

10: [Lloyd MD](#), [Lee HJ](#), [Harlos K](#), [Zhang ZH](#), [Baldwin JE](#), [Schofield CJ](#), [Charnock JM](#), [Garner CD](#), [Hara T](#), [Terwisscha van Scheltinga AC](#), [Valegard K](#), [Viklund JA](#), [Hajdu J](#), [Andersson I](#), [Danielsson A](#), [Bhikhabhai R](#), [Related Articles](#), [Links](#)

 Studies on the active site of deacetoxycephalosporin C synthase.
J Mol Biol. 1999 Apr 16;287(5):943-60.
PMID: 10222202 [PubMed - indexed for MEDLINE]

□ 11: Valegard K, van Scheltinga AC, Lloyd MD, Related Articles, Links
Hara T, Ramaswamy S, Perrakis A,
Thompson A, Lee HJ, Baldwin JE, Schofield
CJ, Hajdu J, Andersson I.



Structure of a cephalosporin synthase.

Nature. 1998 Aug 20;394(6695):805-9.

PMID: 9723623 [PubMed - indexed for MEDLINE]

□ 12: Alvi KA, Reeves CD, Peterson J, Lein J. Related Articles, Links



Isolation and identification of a new cephem compound from
Penicillium chrysogenum strains expressing deacetoxycephalosporin
C synthase activity.

J Antibiot (Tokyo). 1995 Apr;48(4):338-40. No abstract available.

PMID: 7775275 [PubMed - indexed for MEDLINE]

Display [Summary](#) [Show 20](#) [Sort by](#) [Send to](#)

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Sep 9 2005 04:38:00